CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
WATER ANALYSIS RESULTS

FIELD RESULTS	HYDROLAB – YSI 6600				IN-HOFF CONE		
TIME	TEMP (^{o}C)	PH	DISSOLVED OXYGEN (mg/l)	SPECIFIC CONDUCTANCE (umhos/cm)	Settleable Solids (ml/l)		
					10 min	30 min	60 min
07:00	16.5	7.74	1.44	3964	<0.1	<0.1	<0.1
08:00	16.5	7.76	1.45	3996	<0.1	<0.1	<0.1
09:00	16.6	7.77	1.51	4010	<0.1	<0.1	<0.1
10:00	16.7	7.77	1.49	4031	<0.1	<0.1	<0.1
11:00	17.1	7.78	1.23	3995	<0.1	<0.1	<0.1
12:00	17.4	7.77	1.10	3980	<0.1	<0.1	<0.1
13:00	17.7	7.76	1.04	3997	<0.1	<0.1	<0.1
14:00	18.0	7.76	0.84	3951	<0.1	<0.1	<0.1
15:00	18.3	7.77	0.69	3943	<0.1	<0.1	<0.1
16:00	18.6	7.78	0.50	3919	<0.1	<0.1	<0.1
17:00	18.9	7.75	0.38	3902	<0.1	0.1	0.3
18:00	18.7	7.74	0.42	3871	0.1	0.3	0.4
19:00	18.6	7.73	0.38	3855	0.3	0.4	0.5
20:00	18.6	7.75	0.41	3854	0.2	0.4	0.5
21:00	18.4	7.70	0.36	3840	0.2	0.4	0.5
22:00	18.2	7.67	0.42	3843	0.2	0.4	0.5
23:00	17.9	7.66	0.51	3880	0.2	0.3	0.4
24:00	17.6	7.60	0.53	3904	0.2	0.3	0.4
01:00	17.5	7.64	0.59	3938	<0.1	0.3	0.3
02:00	17.3	7.64	0.65	3957	<0.1	0.2	0.2
03:00	17.2	7.66	0.73	3929	<0.1	0.1	0.2
04:00	17.1	7.60	0.70	3968	<0.1	0.1	0.2
05:00	17.0	7.67	0.91	3992	<0.1	0.1	0.1
06:00	17.0	7.72	1.11	4011			
JANUARY AVERAGE	17.6	7.72	0.81	3939	0.1	0.1	0.1
LAST 12 MONTHS AVE	22.69	7.71	1.01	4,231	0.10	0.12	0.13

FIELD OBSERVATIONS:

0700 – 09:00 Ambient temperature ranged from 10.7 to 16.8 ^{o}C. The sky is clear and sunny. No wind. Watercolor is olive green. Mild septic odor. Abundant foam (river's surface is covered with foam)
10:00 –12:00 Ambient temp ranged from 16.8 to 26.9 ^{o}C. Foam begins to dissipate. No other changes observed
13:00 –14:00 Same as above, wind was noticeable, some foam, ambient temp ranged from 26.9 to 27.6 ^{o}C.
14:00 –15:00 Ambient temp ranged from 27.6 to 26.8 ^{o}C. very little foam. No other changes observed
16:00 –20:00 Ambient temp ranged from 26.8 to 17.8 ^{o}C. Abundant foam. Sky is dark, water color is dark green No other changes observed
21:00 –24:00 Ambient temp ranged from 17.8 to 13.9 ^{o}C. Same as above, no other changes observed
01:00 –03:00 Ambient temp ranged from 13.9 to 11.9 ^{o}C. Same as above, no other changes observed.
04:00 –06:00 Ambient temp was 11.9 ^{o}C. Same as above, no other changes observed

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WATER ANALYSIS RESULTS

REG. WATER QUALITY CONTROL BOARD LAB			FECAL COLIFORM RESULTS (MPN/100ml)			
COLLECTION TIME	STORET CODE	ANALYSIS METHOD	JANUARY 2003	12 MONTHS AVE	MAX[1] VALUE	MIN[1] VALUE
11:00	316315	Multiple Tube Fermentation	300,000	164,250	800,000	11,000
12:00	316315	Multiple Tube Fermentation	900,000	245,167	2,400,000	20,000
13:00	316315	Multiple Tube Fermentation	300,000	186,667	1,300,000	20,000
13:30	316315	Multiple Tube Fermentation	300,000	349,167	1,600,000	20,000
14:00	316315	Multiple Tube Fermentation	300,000	202,750	1,300,000	23,000
03:00	316315	Multiple Tube Fermentation	300,000	541,667	3,000,000	300,000
04:00	316315	Multiple Tube Fermentation	>1600000	233,333	1,400,000	130,000
05:00	316315	Multiple Tube Fermentation	900,000	250,000	1,600,000	170,000
05:30	316315	Multiple Tube Fermentation	500,000	400,000	1,600,000	220,000
06:00	316315	Multiple Tube Fermentation	300,000	275,000	1,600,000	110,000

CA. DHS SANITATION AND RADIATION LAB			CONSTITUENT RESULTS (mg/l)[2]			
CONSTITUENT	EPA METHOD	REPORTING LIMIT	JANUARY 2003	12 MONTHS AVERAGE	MAX[1] VALUE	MIN[1] VALUE
MBAS	425.1	0.025	3.82	3.424	10.74	0.06
Phosphate-P, total	365.2	0.010	3.8	20.642	220.00	1.40
Phosphate-P, ortho	300	0.03	1.76	1.393	2.20	0.70
Phenol	420.1	0.002	0.03	0.006	0.03	0.00
Cyanide	SM4500-CNE	0.02	ND	0.000	0.08	0.01
Ammonia - Nitrogen (NH_3-N)	350.2	0.05	12.1	7.113	19.50	0.57
Nitrate - Nitrogen (NO_3-N)	300	0.1	ND	0.073	0.37	0.10
Nitrite - Nitrogen (NO_2-N)	300	0.03	ND	0.028	0.16	0.05
Hardness as ($CaCO_3$)	130.2	1	863	776	940	167
Total Alkalinity as ($CaCO_3$)	310.1	1	376	309	459	270
Bicarbonate (HCO_3)	310.1	1	458	377	560	330
Total Filter Residue (TDS)	160.1	10	2730	2716	3100	1640
Total Suspended Solids	160.2	1	44	39.1	86	16
Turbidity	180.1	0.1	29.1	27.6	52.50	2.50
BOD	405.1	2	36	22.8	69.00	12.00
COD	410.4	5	124	95.1	132.00	35.10

CA. DHS SANITATION AND RADIATION LAB			TRACE METALS RESULTS (ug/l)[1]			
TRACE METALS	METHOD	REPORTING LIMIT (ug/l)	JANUARY 2003	12 MONTH AVERAGE	MAX[1] VALUE	MIN[1] VALUE
As-Arsenic	200.9	2	2	9.4	29	3
Cd-Cadnium	200.7	1	ND	ND	ND	ND
Cr-Chromium	200.7	10	ND	ND	ND	ND
Cu-Copper	200.7	50	ND	7.2	86	10
Pb-Lead	200.7	10	ND	2.3	27	27
Se-Selenium	200.9	5	ND	14.0	72	7
Zn-Zinc	200.7	50	ND	45.3	212	10
Hg-Mercury	245.1	0.2	ND	ND	ND	ND

[1] Max and Mim values for the last 12 months
[2] Composite of eight water samples collected hourly.
[3] Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.
[4] ND = Concentration is reported below the detected limit.
[5] Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.
[6] ND = Concentration is reported below the detected limit.
[7] Detection Limit is as reported 2.0
[8] Detection Limit is as reported 2.0

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CONSTITUENT[9] (ug/l)	STORET CODE	JANUARY - 03 RESULTS (ug/l)							
		9:00	12:00	15:00	18:00	21:00	24:00	3:00	6:00
Benzene	34030	ND[10]	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	81555	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	A-012	ND	ND	ND	ND	0.67	0.54	ND	ND
Bromodichloromethane	32101	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	32104	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane (Mehyl Bromide)	34413	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	A-010	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	77350	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	77353	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	32102	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene (Monochlorobenzene)	34301	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	34311	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	32106	0.69	0.64	0.68	1.20	1.90	2.10	2.20	2.20
Chloromethane (Methyl Chloride)	34418	ND	ND	ND	ND	ND	ND	ND	ND
o-Chlorotoluene (2-Chlorotolulene)	A-008	ND	ND	ND	ND	ND	ND	ND	ND
p-Chlorotoluene (4-Chlorotolulene)	A-009	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromenhane	32105	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	77596	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene (o-DCB)	34536	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene (m-DCB)	34566	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-DCB)	34571	1.10	1.20	1.60	1.90	2.60	2.10	2.20	1.60
Dichlorodifluoromethane (Freon 12)	34668	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)	34496	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)	34531	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene (1,1-DCE)	34501	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	77093	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	34546	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	34541	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	77173	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	77170	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropylene	77168	ND	ND	ND	ND	ND	ND	ND	ND

[9] Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.
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CONSTITUENT[11] (ug/l)	STORET CODE	JANUARY - 03 RESULTS (ug/l)							
		9:00	12:00	15:00	18:00	21:00	24:00	3:00	6:00
cis- & trans-1,3-Dichloropropylene	34561	ND[12]	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	34371	ND	ND	ND	0.67	ND	ND	ND	ND
Ethylene dibromide (EDB)	77651	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	34391	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumeme)	77223	ND	ND	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene (p-Cymene)	A-011	0.57	0.63	0.96	1.10	4.00	3.40	2.00	1.20
Methylene chloride (Dichloromethane)	34423	ND	ND	0.62	ND	0.70	0.73	0.83	1.30
Methyl Ethyl Ketone[13]	81595	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Isobutyl Ketone[14]	81596	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-Butyl Ether (MTBE)	A-030	ND	ND	ND	0.53	ND	0.98	0.55	0.54
Napthalene	34696	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	77224	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	77128	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	77562	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	34516	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	34475	ND	ND	ND	ND	ND	1.1	ND	ND
Toluene	34010	1.30	2.30	2.00	3.80	3.60	3.70	4.40	2.9
1,2,3-Trichlorobenzene	77613	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	34551	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)	34506	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)	34511	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	39180	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	77443	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)	34488	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	77222	ND	ND	0.66	1.60	1.10	0.92	0.99	0.54
1,3,5-Trimethylbenzene	77226	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane (Freon 13)	81611	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)	39175	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	A-014	0.50	0.62	0.84	2.80	1.20	1.20	1.90	1.00
Xylenes total		ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	77135	ND	ND	ND	1.20	0.57	0.55	0.83	ND

[11] Constituents were analyzed using USEPA Method 524.2; all units are reported in micrograms per liter; the detected limit is reported as 0.5 for all the constituents; except as noted.
[12] ND = Concentration is reported below the detected limit.
[13] Detection Limit is as reported 2.0
[14] Detection Limit is as reported 2.0

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